

Canyon Fuel Company SUFCO Mine 397 South 800 West Salina, UT 84654 (435) 286-4880 Fax (435) 286-4499

March 19, 2001

Ms. Kelly Coleman
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P. O. Box 144870
Salt Lake City, UT 84114-4870

Dear Ms. Coleman:

Enclosed is a copy of the 1st Quarter Acute Biomonitoring Report conducted during February for point 003A for the SUFCO Mine facility, permit number UT-0022918. The acute biomonitoring was successfully passed using ceriodaphnia.

Sincerely, CANYON FUEL COMPANY, LLC SUFCO Mine

Michael L. Davis.

Michael L Davis

Environmental & Construction Supervisor

MLD:kb

Encl.:

cc: Mary Ann Wright, DOGM

Guy Pence, USFS Fishlake

Chris Hansen, Skyline

Compliance Officer, U.S. EPA, Denver

EPA Test Procedures & Water Monitoring File

SUFPUB\GOVT2001\DEQ\COLMANLTR. MAR.DOC

THNG

Water & Environmental Testing Inc. 399 West 1200 North, B. Orem, Utah 84057 (801)235-9741 Fax(801)235-9560

Acute Cover Letter

February 17, 2001

Southern Utah Fuel Co. Attn: Ruth Wayman 397 South 800 West Salina, Utah 84654 Received

FEB 26 2001

Canyon Fuel Company SUFCO Mine

Dear Ruth,

Enclosed is the report for the sample dated 2/5/2001. The sample was tested for acute toxicity using Ceriodaphnia dubia following the procedures listed in EPA Section 9. This report is comprised of 6 pages which include;

Cover Letter,
Acute Whole Effluent Toxicity Report Ceriodaphnia dubia,
Region VIII guidance for Acute Whole Effluent Reporting Ceriodaphnia dubia,
Acute Whole Effluent Toxicity Chemical Report,
Data Reduction, (Not required)
Reference Toxicant Chart Ceriodaphnia dubia,
and a copy of the completed Chain of Custody.

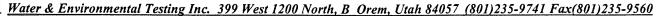
All these pages *together* constitute the final report. If you have not received any of these pages, or if you have any questions please give us a call at 801-235-9741. We look forward to doing business with you in the future.

Sincerely,

Lee Rawlings
Lab Director

QA/QC Flags: None

Comments:



Acute Whole Effluent Toxicity Report Ceriodaphnia

DATE: February 17, 2001

PERMITTEE NAME: Southern Utah Fuel Co. NPDES NO: UT 0022918

OUTFALL NO: PT 003

TEST (Animal/Age): Ceriodaphnia <24 hours.

SAMPLE (Date/Type): 2/5/01 Grab.

DATE/TIME TEST BEGAN: 2/5/01 12:40 p.m.

DATE/TIME TEST COMPLETED: 2/7/01 12:30 p.m..

TEST CONDITIONS

Ceriodaphnia dubia neonates were exposed to diluted Effluent as specified by the permit. At the end of the test period Survival was measured to determine if Acute Toxicity was present in the sample.

Animal Age at Test Start	<24 hours.
Number of Organisms/Dilution Volume/Replicates	5 organisms/15 mL/4 replicates.
Food	Fed YTC and Algae before starting test.
Aeration	None required.
Dissolved Oxygen	Measured daily old/new.
Water Replacement	Renewed daily.
Temperature	20 <u>+</u> 1 degrees C.
Photo Period	16 hours light 8 hours dark.
pH	Measured initially and at 24 hours.
Dilution Water	Reconstituted water (+/- 15% hardness of the receiving water).
Receiving Water	Supplied with sample. Used for dilutions.
Sample Concentrations	Control, 6.25, 12.5, 25, 50, 100%.

SUMMARY

Results:

X Pass

Fail

Received

There was NO significant effect on survival.

FEB 2 6 2001

Enclosed are data sheets and statistical reports.

Canyon Fuel Company SUFCO Mine

Sincerely.

Lee Rawlings

Water & Environmental Testing, Inc.

Enclosure

Region VIII Guidance for Acute Whole Effluent Reporting

PERMITTEE NAME: Southern Utah Fuel Co. NPDES NO: UT 0022918

OUTFALL NO: PT 003

50% MORTALITY TEST: X Pass Fail LC50: >100%.

TEST (Animal/Age): Ceriodaphnia <24 hours.

SAMPLE (Date/Type): 2/5/01 Grab.

DATE/TIME TEST BEGAN: 2/5/01 12:40 p.m..

DATE/TIME TEST COMPLETED: 2/7/01 12:30 p.m..

Survival Totals									
Dilutions (% Effluent)									
	Recon Water	Receiving Water	6.25%	12.5%	25%	50%	100%		
Initial	20	20	20	20	20	20	20		
24 hrs	20	20	20	20	20	20	20		
48 hrs	20	19	19	20	18	19	20		
Max/Min Values									
		Dil	utions (% E	ffluent)					
	Recon Water	Receiving Water	6.25%	12.5%	25%	50%	100%		
Dissolved Oxygen	7.8/7.2	Na	7.8/7.2	7.8/7.2	7.9/7.3	8.5/7.1	9.6/6.5		

20.8/20.6

20.6/20.6

20/6/20.4

Receiving Water used for Dilution? (Y of N) Y

Temperature (°C)

Hardness, mg/L CaCO3: Receiving Water na Recon Water 184 Effluent 488

Received

20.6/20.0

20.6/20.2

Initial Total Residual Chlorine, mg/L Cl2 100% Effluent: <0.05

21.0/20.6

FEB 26 2001

Reconstituted pH: Initial 8.25 After 24 hours 8.36

Receiving Water pH: Initial na After 24 hours na

Canyon Fuel Company SUFCO Mine

pH in 100% Effluent: Initial 7.84 After 24 hours 8.36

Ammonia as N, mg/L: 100% Effluent Initial <0.05 Receiving Water <0.05 Recon Initial <0.05

Conductivity, umhos/cm: 100% Effluent 1,028 Receiving Water na

Alkalinity, mg/L CaCO3: 100% Effluent 258 Receiving Water na

Analyst: Lee Rawlings

Laboratory: Water & Environmental Testing, Inc.

Signature: All Kawhings

Date: 2/19/0

Comments:

Acute Whole Effluent Toxicity Chemical Result Report

February 17, 2001

CUSTOMER NAME:

Southern Utah Fuel Co. Attn: Ruth Wayman 397 South 800 West Salina, Utah 84654 PHONE NUMBER: (435)637-4880 FAX NUMBER: (435)634-3296

> Canyon Fuel Company SUFCO Mine

SAMPLE DESCRIPTION:

Chemistries to go with Acute Ceriodaphnia Toxicity Test Collected 2/5/01.

Sample Source	Test Performed	Log Number	Test Results	
Effluent	Total Hardness, Recon (EPA 130.2)	4358	184 mg/L	
	Total Hardness, Effluent (EPA 130.2)	4358	488 mg/L	
	Total Hardness, Receiving Water (EPA 130.2)	Na	na mg/L	
	Ammonia, Effluent (EPA 350.2/350.3)	4358	<0.05 mg/L	
	Ammonia, Receiving Water (EPA 350.2/350.3)	Na	na mg/L	
	Initial Chlorine Residual (EPA 330.5)	4358	<0.05 mg/L	
	Final Chlorine Residual (EPA 330.5)	4358	na mg/L	
	Conductivity, Effluent (EPA 120.1)	4358	1,028 umhos/cm	
	Alkalinity, Effluent (EPA 310.1)	4358	258 mg/L CaCO ₃	
	Conductivity, Receiving Water (EPA 120.1)	Na	na umhos/cm	
	Alkalinity, Receiving Water (EPA 310.1)	Na	na mg/L CaCO ₃	
	Recon Initial pH (EPA 150.1)	4358	8.25	
	After 24 hours pH (EPA 150.1)	4358	8.36	
	100% Initial pH (EPA 150.1)	4358	7.84	
	100% After 24 hours pH (EPA 150.1)	4358	8.36	
	Receiving Water Initial pH (EPA 150.1)	Na	na	
	Receiving Water After 24 hours pH (EPA 150.1)	Na	na	

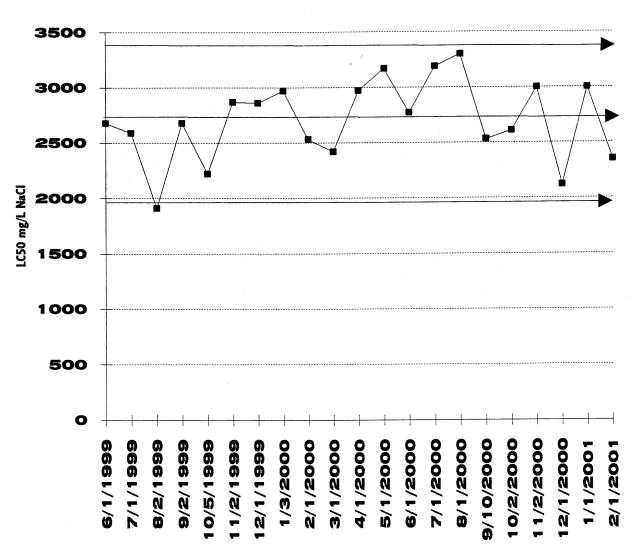
Analyst: Lee Rawlings, Chemist Water & Environmental Testing, Inc.

REFTOX.CER Chart 2

Received

FEB 2 6 2001 Canyon Fuel Company SUFCO Mine

Acute Reference Toxicant Ceriodaphnia February 2001



W.E.T. Inc.

Water & Environmental Testing Inc. 399 West 1200 North, B Orem, Utah 84057 (801)235-9741 Fex (801)235-9560

Chain of Custody Record

			iain of Cast				. 44 M	
Customer: $SUFCO$				Sampler: A GUAY MECHAM				
				Project: PT003				
Sample Da	te: 02	0)01						
Sample Info	ormation				Location	n	Analysis Requested	
Sample #	Date	Time	Compenite/Grab	10			ACUTE - CERIODAPHNIA	
1	020501	0746	41		P7003		CHRONIC- BOTH SPECIES	
2	02 0501	0746	11	11 PT003			11 11	
3	020501	0746	11	" PT00=			// "	
4	020501	0746		/	PT003		,	
	0-10-1					·		
				•				
Sample Co	ustody Reco	rd				Date/Tim	e 0750	
Relinquish	ned by:		Received by:	ينو	6	02	0501 0759	
	may m	iena				Date/Tim	01 11:25 am.	
Reindus	Relinquished by: The lair Received by:			migh 3-3 Date/Ti				
Relinquis	Relinquished by:			Date			Received	
			Date/Time				FEB 2 6 2001	
	ecejved in La	inap	2-5-01 1	11:25 a		Can	VOD FUOL O-	
· · · · · · · · · · · · · · · · · · ·	fukawling 2-5-01 11.22 Canyon Fuel Company Comments: UNGAFE TO GET TO STREAMSUFCO Mine							
Comment	s:	711 2						
				, , , 0	11	01 Ju		
Temperat	ure Received	in the Lab:	Effluent:/ Receiving Water	<u>/ </u>	1.0			
		• •	Vectamp m					
W.E.T. Inc. Us		nd DeliveryX_	Arrived in Ships	ping	Samples	oals Usca 🖓 / N	Samples- COC and Labels Match?	
	e ice W.	ET. Inc. Courier	Container () Sealed: (V) N	/NA	intact (V)	M	Yes X	
Broken / Losi	king? Co	rect Containers Used	? Sufficient Quant	tity Sample	Water?	suntity of Receiv	ing	
YesX		/cs	No		Yes	<u> </u>		